Network Unclassified (Net-U)

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Net-U Background

- Builds on SecureNet "experience" creating a secure virtual private network

- The Energy Science Network (ESnet) provides the transport vehicle

- Supports transport of special categories of unclassified information (OUO, UCNI)
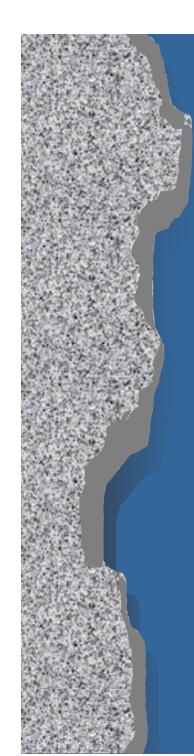
Reasons For Development

- To facilitate the exchange of special categories of unclassified information

- Meet goal of one pipeline (ESnet) to sites for classified (SecureNet) and unclassified (Net-U) communications

- Low site cost: Cylink SDU encryptor $5k

- Secure Manager Station and software $25k

Secure Manager Station

AlliedSignal FM&T/KC manages network

Remote security management

Hardware: Sun Ultra 1 (primary and backup)

Software: Sun Solaris 2.6 operating system

Supports protocols (IP, IPX, AppleTalk)

Communicates using SNMP

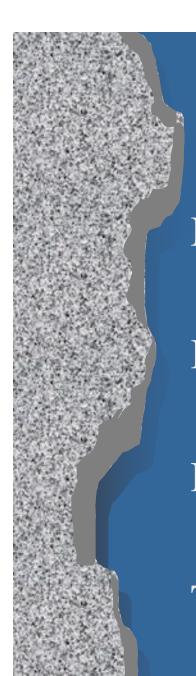Y2K Compliant (YES hardware & software)

Secure Manager Functions

Authenticates each SDU

Configures each SDU

Defines security policy - rules and IP address

Monitors SDU

Secure Domain Unit

NIST approved DES (56 bit keys)

Diffie-Hellman public key management

FIPS 140-1 Certified

Transparent to users and applications

Net-U Who's Who

Net-U DAA S. M. Flores
DOE/AL, ISOM (505) 845-5615

Net-U ISSO J. E. (Ted) Combs
AlliedSignal FM&T, ISSM (816) 997-3543

Secure Management Station TBD
Administrator, AS FM&T

Secure Management Station   Michael Bloomer
Admin (Alternate), AS FM&T (816) 997-5683

Net-U Approval Process

- Site ISSM makes request to Local ISOM

- Local ISOM endorses, forwards

- Net-U DAA reviews, forwards

- DOE/HQ makes connection determination
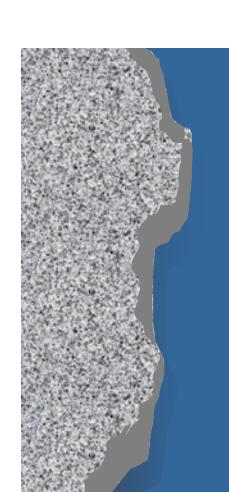
Note: Eleven NWC Sites currently have DOE/HQ determination

Net-U Approval Process

- Local ISSM notified of determination

- Security Plan Appendix, Test Plan, and MOU developed, tested and signed

- Documents forwarded to Net-U ISSO
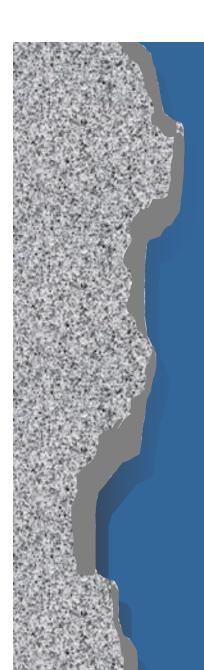
- Net-U DAA approves connection

Accreditation Status

Approved

- AlliedSignal FM&T/KC
- AlliedSignal FM&T/NM
- LLNL

GOAL

Full participation in Net-U
by the end of 1998.

Net-U AlliedSignal FM&T/KC

Open DMZ

- No restrictions on traffic to/from hosts
- Sharing unclassified data with clients connected to ESnet

Closed DMZ

- Restricts inbound/outbound traffic
- Intended for hosts sharing special categories of unclassified information

For More Information

Net-U information is available at:

http://www.llnl.gov/sccd/lc/asci/securenet

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